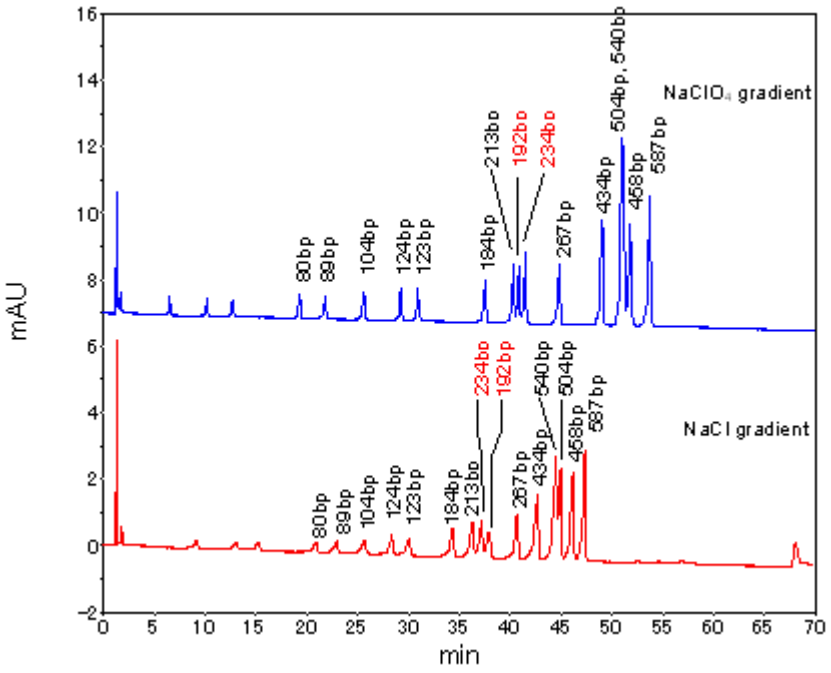
DATA CODE: G00965

Application Title:
Separation of DNA Marker (pBR322-HaeIII digest) by anion-exchange chromatography ~Comparison of NaCl gradient and $NaClO_4$ gradient~

Compound:
pBR322-HaeIII digest



Chromatographic conditions

Column: TSKgel DNA-STAT , P/N 21962, 5 µm, 4.6 mm ID × 10 cm × 1

Mobile Phase:

NaCl gradient
A; 20 mmol/L Tris-HCl (pH 8.5)
B; 20 mmol/L Tris-HCl + 1 mol/L NaCl (pH 8.5)

time(min)	B(%)
0	70
60	90
65	90
65.01	70
70	70

$NaClO_4$ gradient
A; 20 mmol/L Tris-HCl (pH 8.5)
B; 20 mmol/L Tris-HCl + 0.5 mol/L $NaClO_4$ (pH 8.5)

time(min)	B(%)
0	55
60	70
65	70
65.01	55
70	55

* Tris-HCl pH 8.5 : tris(hydroxy methyl)aminomethane (pH 8.5 with HCl)

Flow Rate: 0.5 mL/min

Detection: UV/VIS @ 260 nm

Chromatographic conditions

Temperature:	25 °C
Injection Volume:	5 µL
Sample(s):	DNA marker
Sample Load:	44.6 mg/L
Instrument:	Agilent 1120 Compact LC
Comments:	NaCl and $NaClO_4$ gradient shows slightly different selectivity. For example, elution order of 192bp and 234bp are reversed.

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